

Document Control No. ELVIS.1.3.2 VDD

November 16 1996

**Version Description Document
for the
Enhanced Linked Virtual Information System (ELVIS)**

**Version 1.3.2
(Solaris 2.3 format)**

Prepared for:

DISA

Prepared by:

Inter-National Research Institute (INRI)

300 Kahelu Avenue, Suite 5

Mililani, Hawaii 96789

Version Description Document for the Enhanced Linked Virtual Information System (ELVIS) Version 1.3.2

1. SYSTEM OVERVIEW

The Enhanced Linked Virtual Information System (ELVIS) provides a capability to view tactical information in geographic plots and tabular displays resident in a Global Command and Control System (GCCS) host system and Joint Maritime Command Information System (JMCIS) using a commercial web browser compatible with HyperText Markup Language (HTML) version 3.2, as implemented in the popular browsers. ELVIS software runs on a GCCS/JMCIS host as a group of background processes and does not interfere with normal workstation operations (except for an additional CPU load when servicing browser requests).

ELVIS allows the user to plot selected track data and tactical overlays on high resolution maps. The user can perform a family of query and map manipulation operations, such as track hook, map zoom, and range/bearing calculations. System administration utilities are provided to configure and tune ELVIS. For security, a user login is required to gain access to the tactical information.

2. REFERENCED DOCUMENTS

None.

3. VERSION DESCRIPTION

3.1 Inventory of Materials Released

- Magnetic media: 4mm tapes consisting of the ELVIS segment (HP-UX and Solaris format for UB 3.0.1.6G) intended for the TAC-3/4 and SparcStation 5/20 hardware environments.
- *Version Description Document for the Enhanced Linked Virtual Information System (ELVIS) Version 1.3.2*, Document Control No. ELVIS.1.3.2 VDD, November 16, 1996.
- ELVIS uses the httpd web daemon from CERN and is subject to its shareware copyright restrictions.

3.2 Software Changes

The following changes have been made to enhance ELVIS 1.3.1.1 to version 1.3.2:

1. Ported ELVIS to UB 3.0.1.6G (Solaris only)
2. Developed support for the CIB (Compressed Image Base) products, based on UB's CIB draw module.
3. Added another map GIF size (called "tiny" with a resolution of 200x150 pixels) specifically designed for very low bandwidth communications and PDAs (Personal Digital Assistants). The system administrator can now configure ELVIS to serve maps at the following resolutions:

Tiny	200x150 pixels
Small	400x300 pixels
Medium	600x450 pixels
High	800x600 pixels

4. Move the user's SAVE CUSTOM map operation to the CUSTOM MAP button (previous located under the PLOT CONTROL button). The user can now selectively save the plot controls and active overlays with a custom map.
5. Resolved several problems with Microsofts Explorer browser. Specifically, Explorer did not properly handle HTTP status code 204, which resulted in error messages whenever the user attempted a zoom or rng/brg operation (or simply click on the tactical display away from a track symbol or track name).
6. Corrected several alignment problems with the MAP OPTIONS pull-down, the tactical display GIF, and the tool bar.
7. Added a VCC button (which returns the user to the VCC) to the links under the COMMS button (which is at the bottom of the VCC). Specifically, the ILOG, OLOG, and OPNOTE log have a VCC button.
8. Complied with the DII COE, as implement by UB 3.0.1.6G.

4. INSTALLATION INSTRUCTIONS

Refer to the *Installation Procedures for the Enhanced Linked Virtual Information System (ELVIS) Version 1.3.2* for installation instructions.

5. KNOWN PROBLEMS, ERRORS, AND DESIGN CONSTRAINTS

Additional information regarding trouble-shooting procedures can be found in the ELVIS System Administrator Guide (section 8).

1. LINK 11 tracks are plotted, but the user cannot click on a LINK track for additional track information.
2. PLRS tracks are plotted, but the track data window (which is displayed when the user click on a PLRS track) is not consistent with the UB track data window.

3. The “show map coverage” option does not display coverage rectangles for CIB map products.
4. A GCCS/JMCIS user must be logged into the ELVIS server.
5. On a dual-eye HP hardware configuration, the first user to log in must stay logged in for ELVIS to continue servicing browser requests. Testing has not been performed on systems with more than two eyes.
6. At the end of an ELVIS installation, the text string “.domainname” may be displayed to the installer as part of the ELVIS URL; it should be replaced with the site’s domain (the URL should be distributed to all prospective users). On Solaris hosts running NIS, this text string is the NIS hostname instead of the Domain Name Server (DNS) hostname.
7. The number of users per ELVIS host is limited to 1000.
8. The user account options for priority and read-only/read-write are not implemented.
9. Declutter of track data around the edges of the tactical display may be incomplete, i.e., track labels may overlap.
10. During installation, the GIF resolution size for the tactical display is not preserved. The system administrator must reset the resolution to the desired size, if it is other than the default “lowres” 400x300 pixels.
11. The following two conditions occur (by design in order to improve system performance) when more than 250 contacts are displayed:
 - a. No track symbols are active but all displayed track name labels are active (and declutter will limit the number of labels).
 - b. The UNIT option will only provide a list of tracks whose labels are displayed. For example, a “whole world” display of 1,500 tracks will have no “hot” track symbols but may have 50 “hot” track name labels. In this case, the UNIT option provides a list of the 50 tracks with name labels. For a complete listing of all tracks, use the FIND option with an asterisk in the NAME field.